CLAIMS

1	1. A computer-implemented method for compressing data, the method
2	comprising:
3	applying a dynamic prediction function to the data to yield first compressed
4	data;
5	applying a Golomb coding function to the first compressed data to yield
6	second compressed data; and
7	outputting the compressed data.
1	2. The method of claim 1 wherein the data is image data.
1	3. The method of claim 1 wherein the data is audio data.
1	4. The method of claim 1 further comprising transforming the data from a
2	first domain to a second domain prior to applying the dynamic prediction function.
1	5. The method of claim 4 wherein the first domain is an RGB domain and the
2	second domain is a YUV domain.
1	6. The method of claim 4 wherein the first domain is a left and right channel
2	domain and the second domain is a UV domain.
1	7. The method of claim 1 wherein the first compressed data has a Laplacian
2	distribution.

1	8. A computer program product for compressing data, the computer
2	program product stored on a computer-readable medium containing executable
3	instructions configured to cause a computer to perform the steps of:
4	applying a dynamic prediction function to the data to yield first compressed
5	data;
6	applying a Golomb coding function to the first compressed data to yield
7	second compressed data; and
8	outputting the compressed data.
1	9. The computer program product of claim 8 wherein the data is image data.
1	10. The computer program product of claim 8 wherein the data is audio data
1	11. The computer program product of claim 8 further comprising
2	instructions configured to cause a computer to transform the data from a first
3	domain to a second domain prior to applying the dynamic prediction function.
1	12. The computer program product of claim 11 wherein the first domain is
2	an RGB domain and the second domain is a YUV domain.
1	13. The computer program product of claim 11 wherein the first domain is a

1 14. The computer program product of claim 8 wherein the first compressed data has a Laplacian distribution.

left and right channel domain and the second domain is a UV domain.

2

1	15. A system for compressing data, the system comprising:
2	a dynamic predictor for compressing a data stream using dynamically
3	predicted coefficient values in order to produce a first compressed
4	streaming having a Laplacian distribution;
5	an adaptive golomb Engine, communicatively coupled to the dynamic
6	predictor, for receiving the first compressed stream and further
7	compressing the first compressed stream to form a second compressed
8 .	stream.
1	16. The system of claim 15 wherein the data is image data.
1	17. The system of claim 15 wherein the data is audio data.
1	18. The system of claim 15 further comprising a pre-processing engine for
2	transforming the data from a first domain to a second domain prior to applying the
3	dynamic prediction function.
1	19. The method of claim 17 wherein the first domain is an RGB domain and the second domain is a YUV domain.
l	20. The method of claim 17 wherein the first domain is a left and right
2	channel domain and the second domain is a UV domain.
1	21. A data compression system for compressing data, the system comprising
2	receiving means receiving for data to be compressed;
3	dynamic predicting means, coupled to the receiving means, for applying a
1	dynamic prediction function to the data to yield first compressed data;

5	Golomb coding means, communicatively coupled to the dynamic predicting
6	means, for applying a Golomb coding function to the first compressed
7	data to yield second compressed data; and
8	outputting means, communicatively coupled to the Golomb coding means,
9	for outputting the compressed data.